

NEW MEXICO GRASS TYPES AND A SELECTED BIBLIOGRAPHY OF NEW MEXICO GRASS TAXONOMY¹

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ABSTRACT.—Collection data, bibliographic citations, and curatorial information on 52 names of New Mexico grass types are compiled. A bibliography of taxonomic research pertinent to the study of New Mexico grasses is cross-referenced with genera known to occur in the state.

Bibliographic and historical information are an essential, but often neglected, resource for the student of plant systematics. The correct application of plant names requires accurate information concerning nomenclatural types, and precise floristic and identification work demands access to reliable monographic or revisionary literature. This is especially so when changes are made in traditional systematic alignments; reference literature allows others to understand and evaluate the revisions.

Nearly every botanist engaged in the taxonomy of grasses (Gramineae) during the past century described at least one novelty from New Mexico material. The list of grass types presented here includes 52 taxa known to have been described from specimens gathered in New Mexico. As a point of comparison, 19 grass taxa have been named from Utah material (Welsh 1982). Twenty-one different authors contributed new taxa; but three, George Vasey (14 names), John Torrey (6 names), and Ernst Steudel (5 names), accounted for nearly 50% of the plant names (Table 1). Botanical publication of grass taxa from New Mexico began in 1854 with species of *Aristida*, *Muhlenbergia*, *Oryzopsis*, and *Poa* (Steudel 1854) and has continued for well over a century, the latest being in 1986 from the genus *Andropogon* (Campbell 1986). Of the authors, only A. S. Hitchcock, Paul Standley, George Thurber, George Vasey, and E. O. Wootton also participated as field collectors of new grasses from New Mexico (Table 1). George Vasey heads the list with

collections of 9 new taxa from New Mexico. Grant and Santa Fe counties contain the most localities of new grasses (Table 2). Santa Fe is one of the oldest towns in the United States and was visited by many collectors early in the 1800s. William Gambel passed through in 1841 or 1842 on his way to California; his collections were described by Thomas Nuttall. Wislizenus followed in 1846. August Fendler made extensive collections there in the spring of 1847, sending them to Asa Gray. Most of his collections came from the Santa Fe Creek area and within 10–12 miles of Santa Fe. A. A. Heller, G. R. Vasey, S. M. Tracy, and T. D. A. Cockerell were other botanists who collected near Santa Fe in the late 1800s or early 1900s; the collections of Vasey and Tracy contributed new grasses. Many of the collections from Grant County came from the mining camp of Santa Rita, 15 miles east of Silver City. Charles Wright, J. M. Bigelow, and George Thurber collected there in the 1850s. Mangas Springs, also in Grant County, was visited by O. B. Metcalfe in 1903, who collected several hundred sets of plants. C. G. Pringle, H. H. Rusby, and J. C. Smith also collected new grasses from Grant County (Standley 1910).

The ensuing list attempts to include all grass names based on New Mexico material. The author of the name, publication data, collector and number, locality of collection, deposition of type material, and current taxonomic disposition of the name are given for each type.

Following the list of types is a list of the

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TABLE 1. Authors and collectors of New Mexico grass types.

Name	Authored	Collected
Thomas Antisell	0	1
William J. Beal	1	0
John M. Bigelow	0	5
W. S. Boyle	1	0
Samuel B. Buckley	2	0
Christopher S. Campbell	1	0
Karel Domin	2	0
William H. Emory	0	1
August Fendler	0	7
William Gambel	0	2
Eduard Hackel	1	0
Albert S. Hitchcock	2	2
Edwin James	0	1
Ivan M. Johnston	1	0
Marcus E. Jones	1	0
O. C. Louis-Marie	1	0
Edgar A. Mearns	0	1
Elmer D. Merrill	1	0
Orrick B. Metcalfe	0	3
George Nash	3	0
Thomas Nuttall	2	0
Cyrus C. Pringle	0	1
H. H. Rusby	0	1
Frank L. Scribner	4	0
Cornelius L. Shear	1	0
Jared G. Smith	1	2
Paul C. Standley	1	1
Ernst G. Steudel	5	0
Jason Swallen	3	0
George Thurber	1	1
John Torrey	6	0
Samuel M. Tracy	0	1
George Vasey	14	9
Wilkins	0	1
S. W. Woodhouse	0	1
Elmer O. Wooton	1	5
Charles Wright	0	6

grass genera of New Mexico cross-referenced to a selected bibliography. The bibliography is not intended to be exhaustive; rather, only significant revisionary or summary papers pertinent to New Mexico grass taxonomy are listed. Further references may be obtained by consulting the works listed here, particularly Gould and Shaw (1983) and Soderstrom et al. (1987).

NEW MEXICO GRASS TYPES

The acronym in parentheses (Holmgren et al. 1981) refers to the locality of type material: holotype, isotype, fragment, or other duplicate material.

Agrostis minutissima Steudel, Syn. Pl. Glum. 1: 171. 1854. Fendler 956, in 1847, Santa Fe Co., near Santa Fe (US). = *Muhlenbergia minutissima* (Steud.) Swallen

TABLE 2. Counties of collection of New Mexico grass types.

County	Number of types
Bernalillo	1
Colfax	1
Doña Ana	4
Eddy	3
Grant	12
Hidalgo	1
Lincoln	1
Otero	2
Rio Arriba	2
San Miguel	3
Santa Fe	11
Socorro	1

Andropogon glomeratus (Walter) B.S.P. var. *scabriglumus* Campbell, Syst. Bot. 11: 291. 1986. C. Wright 2100, in 1851, Grant Co., probably near Silver City (G11).

Andropogon neo-mexicanus Nash, Bull. Torr. Bot. Club 25: 83. 1898. E. O. Wooton 583, 26 Aug 1897, Otero Co., White Sands (NY). = *Schizachyrium neomexicanum* (Nash) Nash

Andropogon wrightii Hackel, Flora 68: 139. 1885. C. Wright 2104, in 1851, Grant Co., Silver City (US). = *Bothriochloa wrightii* (Hack.) Henr.

Aristida fendleriana Steudel, Syn. Pl. Glum. 1: 420. 1854. Fendler 973, in 1847, Santa Fe Co., Santa Fe (US). = *Aristida purpurea* Nutt. var. *fendleriana* (Steud.) Vasey

Aristida longiseta Steudel, Syn. Pl. Glum 1: 420. 1854. Fendler 978, in 1847, probably Santa Fe Co., Santa Fe (US). = *Aristida purpurea* Nutt. var. *longiseta* (Steud.) Vasey

Aristida pansa Wooton & Standley, Contr. U.S. Natl. Herb. 16: 112. 1913. Wooton s.n., 6 Oct 1904, Doña Ana Co., Tortugas Mt. near Las Cruces (US).

Aristida subuniflora Nash in Small, Fl. Southeast. U.S. 116. 1903. Vasey s.n., in 1881?, "New Mexico," probably Santa Fe Co. near Santa Fe (NY). = *Aristida purpurea* Nutt. var. *fendleriana* (Steud.) Vasey

Bouteloua pusilla Vasey, Bull. Torr. Bot. Club 11: 6. 1884. G. R. Vasey s.n., "Kingman, New Mexico" (US). [Probably Kingman, Arizona, as there is no known Kingman, New Mexico.] = *Bouteloua simplex* Lag.

Bromus porteri (Coulter) Nash var. *frondosus* Shear, U.S.D.A. Div. Agrost. Bull. 23: 37. 1900. J. G. Smith s.n., Grant Co., Mangas Springs (US).

Calycodon montanum Nuttall, J. Acad. Nat. Sci. Phil. n. ser. 1: 186. 1848. W. Gambel s.n., Santa Fe Co., near Santa Fe (PH). = *Muhlenbergia montana* (Nutt.) A. S. Hitchc.

Chaetochloa grisebachii (Fourn.) Scribn. var. *ampla* Scribn. & Merrill, U.S.D.A. Div. Agrost. Bull. 21: 36. 1900. G. R. Vasey s.n., in 1881, Doña Ana Co., Organ Mountains (US). [One of two specimens cited] = *Setaria grisebachii* Fourn.

Chondrosium eriopodium Torrey in Emory, Notes Mil. Recon. 154. 1848. Bigelow s.n., in 1847, "along the Del Norte [Rio Grande] River," New Mexico (US). = *Bouteloua eriopoda* (Torr.) Torr.

Chondrosium foenum Torrey in Emory, Notes Mil. Recon. 154. 1848. Emory s.n., in 1847, "uplands bordering the valley of the Del Norte [Rio Grande]." = *Bouteloua hirsuta* Lag.

Epicanpes subpatens A. S. Hitchcock, U.S.D.A. Bull. 772: 144. 1920. A. S. Hitchcock 13541, Eddy Co., Guadalupe Mountains (US). = *Muhlenbergia emersleyi* Vasey

Eragrostis fendleriana Steudel, Syn. Pl. Glum. 1: 278. 1854. Fendler 932, in 1847, "Mexico" [now New Mexico], probably Santa Fe Co. near Santa Fe (US). = *Poa fendleriana* (Steud.) Vasey

Eragrostis neomexicana Vasey, Contr. U.S. Natl. Herb. 2: 542. 1894. Vasey s.n., in 1881, Doña Ana Co., Organ Mountains (US). = *Eragrostis mexicana* (Hornem.) Link

Fendleria rhyuchelytroides Steudel, Syn. Pl. Glum. 1: 420. 1854. Fendler 979, in 1847, probably Santa Fe Co. near Santa Fe (US). = *Oryzopsis hymenoides* (Roem. & Schult.) Ricker

Koeleria macrura Domin forma *triflora* Domin, Bibl. Bot. 65: 238. 1907. E. O. Wooton 110, probably 1897, Doña Ana Co., Organ Mountains (US). = *Koeleria macrantha* (Ledeb.) Schult.

Koeleria nitida Nuttall var. *laxa* Domin, Bibl. Bot. 65: 235. 1907. O. B. Metcalfe s.n., perhaps Grant Co., "New Mexico." [Another specimen from Arizona also cited] = *Koeleria macrantha* (Ledeb.) Schult.

Melica porteri Scribner var. *laxa* Boyle, Madroño 8: 25. 1945. E. O. Wooton 680, in 1897, Lincoln Co., White Mountains (US).

Muhlenbergia abata I. M. Johnston, J. Arnold Arbor. 24: 387. 1943. Wright 1982, in 1851, valley of the Rio Grande (GH). = *Muhlenbergia repens* (Presl) A. S. Hitchc.

Muhlenbergia acuminata Vasey, Bot. Gaz. 11: 337. 1886. Wright 1993, in 1851, probably Grant Co. near Santa Rita (US). = *Muhlenbergia dubia* Fourn.

Muhlenbergia metcalfei M. E. Jones, Contr. West. Bot. 14: 12. 1912. O. B. Metcalfe 1485, in 1904, Grant Co., Santa Rita Mountains (US).

Muhlenbergia neo-mexicana Vasey, Bot. Gaz. 11: 337. 1886. G. R. Vasey s.n., in 1881?, "rocky hills and mountain sides, New Mexico" (US). = *Muhlenbergia pauciflora* Buckl.

Muhlenbergia sinuosa Swallen, Contr. U.S. Natl. Herb. 29: 204. 1947. E. A. Mearns 2457, in 1893, Hidalgo Co., San Luis Mountains (US).

Muhlenbergia sylvatica (Torr.) Torr. var. *flexuosa* Vasey in Wheeler, Rpt. U.S. Survey W. 100th Merid. 6: 284. 1878. Wright 731, in 1851, perhaps Grant Co. near Silver City. = *Muhlenbergia monticola* Buckl.

Muhlenbergia sylvatica (Torr.) Torr. var. *pringlei* Scribner, Bull. Torr. Bot. Club 9: 89. 1882. C. Pringle 480, Grant Co., Santa Rita Mountains (US). = *Muhlenbergia pauciflora* Buckl.

Muhlenbergia wrightii Vasey in Coulter, Man. Rocky Mount. 409. 1885. Wright 1986, in 1851, "Colorado and New Mexico" (US).

Panicum bulbosum H.B.K. var. *minus* Vasey, U.S.D.A. Div. Bot. Bull. 8: 35. 1889. Rusby s.n., in 1880, perhaps Grant Co. near Mangas Springs (US).

Panicum lachnanthum Torrey, U.S. Expl. Miss. Pacif. Rpt. 7: 21. 1858. T. Antisell s.n., in Aug 1854, Grant Co.,

Burro Mountains (NY). = *Digitaria californica* (Benth.) Henr.

Panicum plenum A. S. Hitchcock & Chase, Contr. U.S. Natl. Herb. 15: 80. 1910. Metcalfe 739, Sep 1903, Grant Co., Mangas Springs (US). = *Panicum bulbosum* H.B.K.

Pleopogon setosum Nuttall, J. Acad. Phil. n. ser. 1: 189. 1848. W. Gambel s.n., in 1841 or 1842, Santa Fe Co., "mountains of Santa Fe" (PH). = *Lycurus phleoides* H.B.K. var. *glaucofolius* Beal

Pleuraphis jamesii Torrey, Ann. Lye. N.Y. 1: 148. 1824. James s.n., in 1852, sources of the Canadian River, Texas or New Mexico (NY). = *Hilaria jamesii* (Torr.) Benth.

Poa arida Vasey, Contr. U.S. Natl. Herb. 1: 270. 1893. G. R. Vasey s.n., in 1881, Socorro Co., Socorro (US).

Poa bigelovii Vasey & Scribner, Contr. U.S. Natl. Herb. 1: 270. 1893. Fendler 931, in 1847, "New Mexico," Santa Fe Co., probably along Santa Fe Creek east of Santa Fe (US?).

Poa occidentalis Vasey, Contr. U.S. Natl. Herb. 1: 274. 1893. G. R. Vasey s.n., in 1881, Santa Fe Co., near Santa Fe (US).

Poa tracyi Vasey, Contr. U.S. Natl. Herb. 1: 276. 1893. S. M. Tracy s.n., in 1887, Colfax Co., "on mountain sides at Raton" (US).

Situmion caespitosum J. C. Smith, U.S.D.A. Div. Agrost. Bull. 18: 16. 1899. J. C. Smith s.n., in 1897, Grant Co., near Cliff (US). = *Elymus longifolius* (Smith) Gould

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Sporobolus thurberi Scribner, U.S.D.A. Div. Agrost. Bull. 11: 48. 1898. Bigelow s.n., Sep 1853, Rio Arriba Co., Plaza Larga (US). = *Muhlenbergia thurberi* Rydb.

Stipa curvifolia Swallen, J. Wash. Acad. Sci. 23: 456. 1933. Wilkins 1660, Eddy Co., Guadalupe Mountains (US).

Stipalobata Swallen, J. Wash. Acad. Sci. 23: 199. 1933. A. S. Hitchcock (Amer. Gr. Natl. Herb. 819), Eddy Co., Queen, Guadalupe Mountains (US).

Stipa pennata L. var. *neomexicana* Thurber in Coulter, Man. Rocky Mount. 408. 1885. Thurber 269, probably Grant Co., "Rio Mimbres." = *Stipa neomexicana* (Thurb.) Scribn.

Stipa scribneri Vasey, Bull. Torr. Bot. Club 11: 125. 1884. Vasey s.n., in 1881?, Santa Fe Co., Santa Fe (US).

Tricuspis mutica Torrey, U.S. Expl. Miss. Pacif. Rpt. 4: 156. 1856. Bigelow s.n., 22 Sep 1853, San Miguel Co., Laguna, Colorado (NY). = *Tridens muticus* (Torr.) Nash

Trisetum montanum Vasey, Bull. Torr. Bot. Club 13: 118. 1886. G. R. Vasey s.n., in 1881, San Miguel Co., Las Vegas (US).

Trisetum montanum Vasey var. *pilosum* Louis-Marie, Rhodora 30: 212. 1928. P. C. Standley 4536, Aug 1908, San Miguel Co., Cowles. = *Trisetum montanum* Vasey

Uralepis composita Buckley, Proc. Acad. Nat. Sci. Phila. 1862: 94. 1862. Woodhouse s.n., probably 1851, "New Mexico" (PH). = *Leptochloa fascicularis* (Lam.) Gray

Uralepis poaeoides Buckley, Proc. Acad. Nat. Sci. Phila. 1862: 94. 1862. Fendler 932, in 1847, probably Santa Fe Co. near Santa Fe (PH). = *Poa fendleriana* (Steud.) Vasey

Vilfa tricholepis Torrey, U.S. Expl. Miss. Pacif. Rpt. 4: 155. 1857. Bigelow s.n., Oct 1853, Bernalillo Co., Sandia Mountains (NY). = *Blepharoneuron tricholepis* (Torr.) Nash

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